



HOW TO MACHINE

making, revamping, repairs

하우투머신



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HOW TO MACHINE

"HOW TO MACHINE" HAS BEEN EXPERIENCED MANY YEARS IN THIS INDUSTRIAL MACHINE FIELD AND PROVIDE CUSTOMERS WITH VARIETY OF SOLUTION WHAT THEY NEEDS. In modern business environment age, In the base on High developed techonology, "How to Machine" is aim to make more than detailing micro-sized, even more improved AI system. such a first half of industrial trends, It requires productivity of manufacturing equipment ,simultaneously high-degree of precision.

In the modern generation with the times, "How to machine" always analyze not only a variety of environments , precise needs for customers satisfaction but also provide high-quality customers centered solution which is our business motto. and Also HTMS are highly focusing on the fastest solution that causing many kind of worse issues from the company.

make

localization from
the foreign
made product

revamp

working efficiency

repair

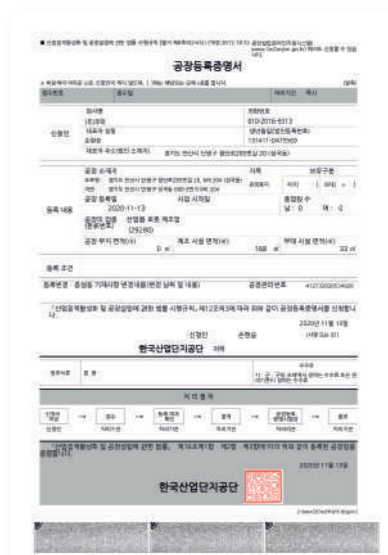
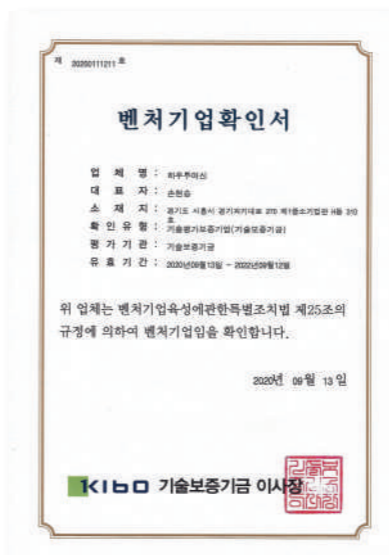
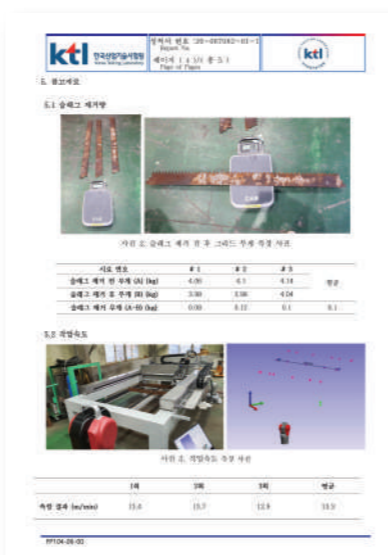
Zeronize of
industrial disaster

Company History

- 2018**
- 07.23 Establishment of Company - Siheung Start-up Center
 - 08.01 **Government-funded projects - Support projects for the origin of innovative start-ups**
 - 09.05 Patent application "Slag removal device for laser processing paper support plate"
 - 09.13 Acquire Venture Certification
 - 11.20 Appointment of Evaluation Committee for Small and Medium Business Technology Development Support Project- Representative Son Hyun-seung
 - 11.27 Patent application "Slag removal device for laser processing paper support plate"
 - 12.31 Technical data for large, small and medium enterprises and agricultural and fisheries cooperation foundation is impregnated

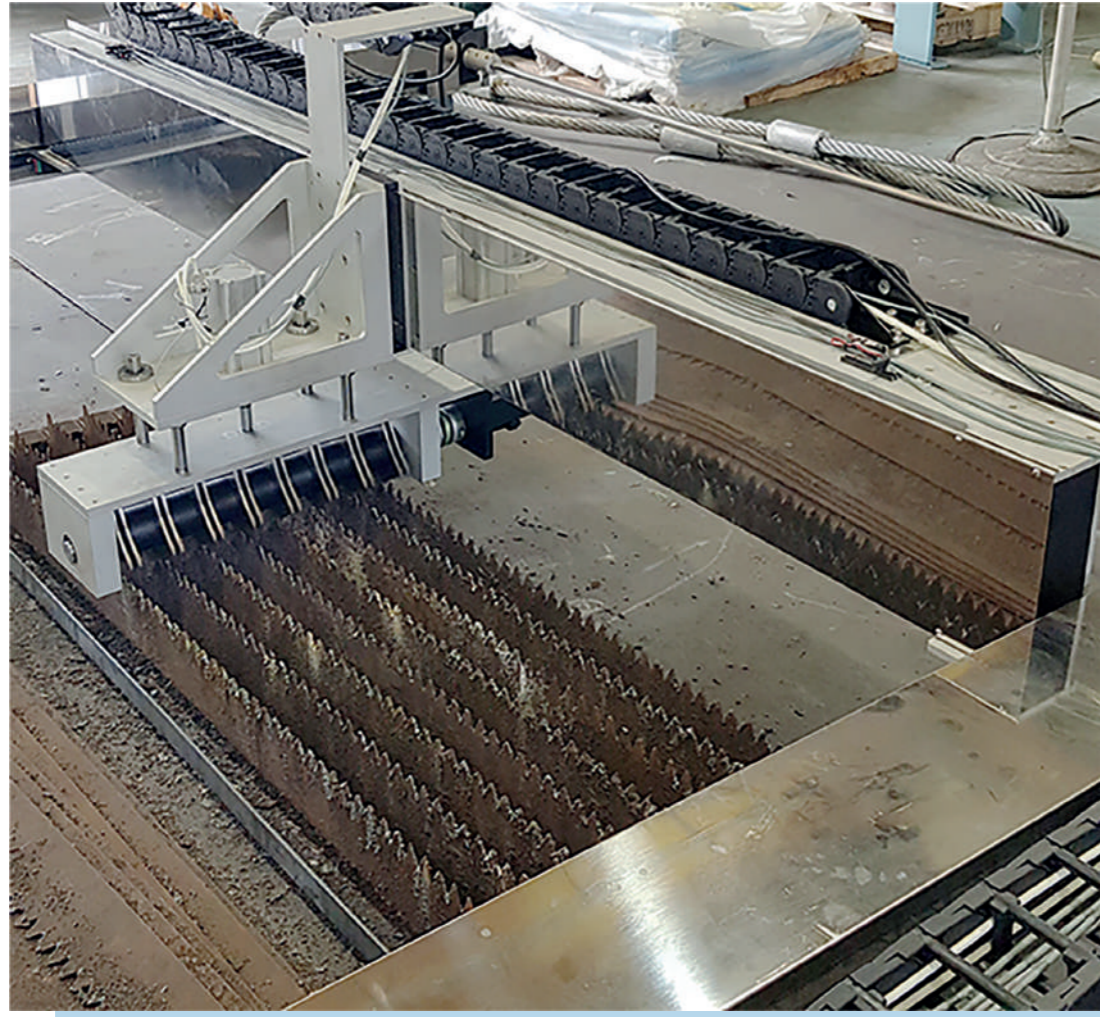
- 2019**
- 02.15 Patent registration "Slag removal device of laser processor support plate"
 - 08.23 Patent application "Slag removal device of laser processor support plate"
 - 09.05 PCT application: KR/2019/011513
 - 11.02 **German International Idea Invention New Product Exhibition (INEA) - Gold Prize Winner**

- 2020**
- 03.16 **Government-funded Business Agreement - Start-up Success Package Support Project**
 - 06.04 US Patent Application "Slag Removal Apparatus"
 - 06.08 Transfer of Company - Gyeonggi University of Science and Technology 1st Small and Medium Business Hall
 - 06.15 European Patent Application "Slag Removal Apparatus"
 - 08.03 **Government-sponsored business agreement - "The stepping stone business project" for start-up growth technology development project**
 - 10.01 **Government Support Business Agreement - Export Support Program**
 - 10.12 **Government Assistance Agreement - Commercialization Link Knowledge Property Evaluation Support Project**
 - 10.14 Establishment of WOOAH Corporation
 - 10.20 China Patent Application "除渣装置"
 - 11.13 Factory Registration
 - 12.11 Obtaining ISO Certification



Grid Scraper

Major business



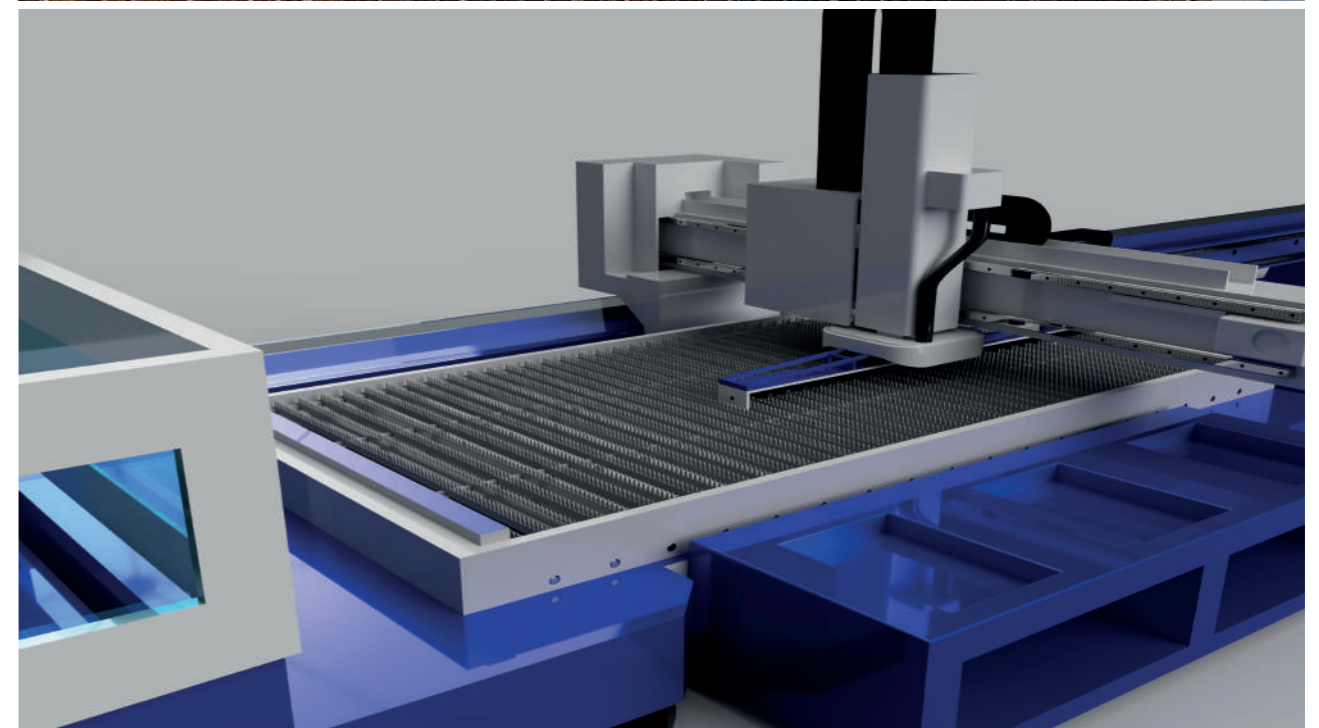
Grid Scraper

Laser processing machine in the process of creating material with Laser Processing Machine, Slag that caused by Grid make a lower precision, a collision with processor head and cause a lot of issues. In order to solve this issue by slag, We developed Grid Scraper "HTMS-2019 for removing slag.

HTMS-2019 get rid of slags of laser processor **grid automatically at the same time**. while operating in the production process, **we could not discontinue operation**. And perform more efficient removing slag, so that it **saves the cost causing** by grid effectively.

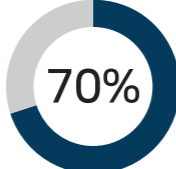
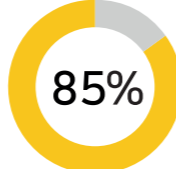


Model no.	HTMS-2018	HTMS-2019	HTMS-2020
size(mm)	2,823×3,277×687	3,240×2,048×450	Customizing
Input voltage	220V 3P	220V 3P	◎
Blade(row)	8(series)	10(bevel)	20(bevel)
Stroke	1,600×1,800×100	2,100×1,000×100	◎
RPM	600	-	◎
Operation pace	-	13.3(m/min)	◎

HTMS-2019



HTMS-2020

Core-Competitiveness

	Existing Technology	development technology
Range of removal	1 row	8/10/20 row
Removal ratio	 70%	 85%
Working method	 Work by manual	 Machine Automation



Saving the relating cost

Cost for replacing grid and cleaning
Repair and Replace when break down the laser head
Collecting possibly initial introduction cost within 1.5 year



Improvement of working environment

Operating time when removing slag and work intensity -> decrease
possibly removing slag while operation



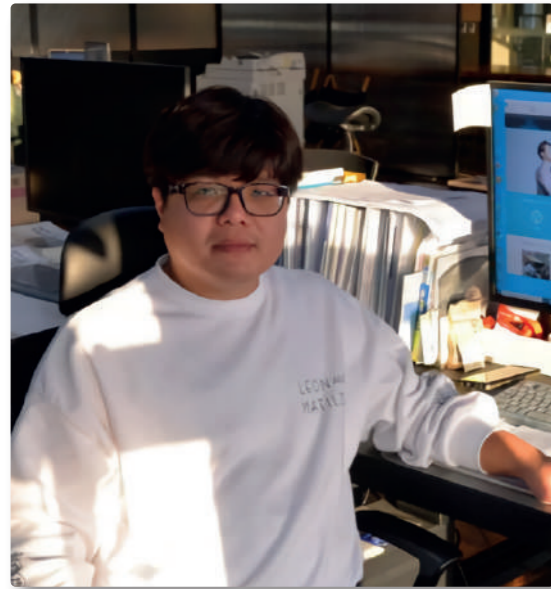
Industrial Accident prevention

Substitute machine automation from the labor work



<INEA 2019 Gold Prize>

Organization chart



Sohn, Hyeon-Seung president

- 2010 Master of Mechanical Engineering, Incheon National University Graduate School of Engineering
- 2010 Researcher at Hydrotec Corporation Research Institute
- 2011 Head of Research Institute of Hongwoo Industrial Machinery Co., Ltd.
- 2013 Jeonghan, Director of Research Institute for Precision Enterprise
- 2018 CEO of How to Machine
- 2018 Evaluation Committee member for Technology Development Support Project for Small and Medium Enterprises
- 2019 Evaluating the Public Purchase System
Completion of multiple national projects
10th Graduation of Young Entrepreneurship Military Academy

R&D

It is a department in charge of product development based on basic research and research results, and plays a key role in planning and conducting various projects of HOW TO MACHINE and maximizing business performance.

S&MD

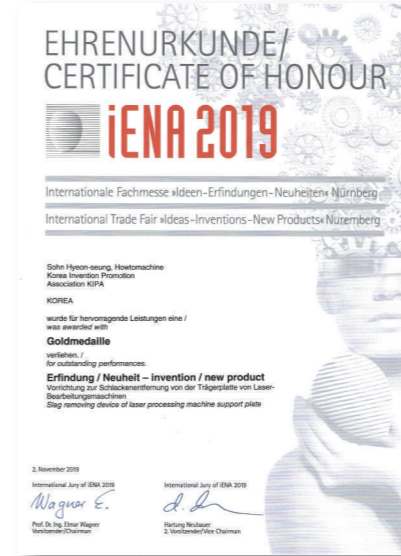
in charge of marketing product planning and sales, and I am in charge of planning, promoting, and selling products of How to Machine.

F&A

The Asset Management department responsible for the company's financial and accounting, managing the overall performance of How To Machine, and executing funds.

Manufacturing facility

Current status of securing intellectual property rights



<INEA 2019 Gold Prize>



<a domestic patent certificate>



<PCT application form>



<European patent>



<U.S. Patent>



<Chinese patent>